

354356078403503 WK-279 DENR Lake Wheeler Research Station MW-1D (Bedrock Well)—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2002, December 2003 to June 2004 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 2001 to July 2002, December 2003 to June 2004.

pH: December 2001 to July 2002, December 2003 to June 2004.

WATER TEMPERATURE: December 2001 to July 2002, December 2003 to June 2004.

DISSOLVED OXYGEN: December 2001 to July 2002, December 2003 to June 2004.

DISSOLVED OXYGEN, PERCENT SATURATION: December 2001 to July 2002, December 2003 to June 2004.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from December 2001 to July 2002, December 2003 to June 2004.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources, Water Resources Division as part of the Piedmont/Mountains ground-water study. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	758, May 3, 2004	620, April 1, 2002
pH, standard units	6.3, December 22-25, 27-31, 2003, January 1, 2004	5.5, on many days during the period
WATER TEMPERATURE, °C	16.1, on many days during the period	16.1, on many days during the period
DISSOLVED OXYGEN, mg/L	1.1, April 1, 2002	0.2, on many days during the period
DISSOLVED OXYGEN, PERCENT SATURATION,%	11, April 1, 2002	2, on many days during the period

EXTREMES FOR CURRENT PERIOD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	758, May 3	671, February 28
pH, standard units	6.3, December 22-25, 27-31, January 1	5.7, May 29-31, June 15-17
WATER TEMPERATURE, °C	16.1, on many days during the period	16.1, on many days during the period
DISSOLVED OXYGEN, mg/L	0.8, February 7, 28	0.2, January 13-15, 18-20, April 8, 9, 11, 12, 24
DISSOLVED OXYGEN, PERCENT SATURATION,%	8, February 7, 28	2, January 13-15, April 8, 9, 11, 12, 24

354356078403503 WK-279 DENR Lake Wheeler Research Station MW-1D (Bedrock Well)—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	718	699	706	731	749	751	---	---	---
2	---	---	---	720	703	708	730	749	752	---	---	---
3	---	---	---	720	702	709	727	752	751	---	---	---
4	---	---	---	723	696	711	724	751	751	---	---	---
5	---	---	---	725	699	711	724	748	750	---	---	---
6	---	---	---	716	710	713	732	744	750	---	---	---
7	---	---	---	716	687	713	737	743	750	---	---	---
8	---	---	---	717	691	715	743	742	748	---	---	---
9	---	---	---	720	700	716	742	741	749	---	---	---
10	---	---	---	711	---	715	741	742	749	---	---	---
11	---	---	---	709	---	718	739	742	748	---	---	---
12	---	---	---	717	---	722	737	742	747	---	---	---
13	---	---	---	725	---	714	736	739	746	---	---	---
14	---	---	---	728	696	716	735	739	747	---	---	---
15	---	---	---	727	700	719	728	739	745	---	---	---
16	---	---	---	712	684	720	---	741	744	---	---	---
17	---	---	---	706	695	716	---	742	---	---	---	---
18	---	---	---	716	703	722	---	744	---	---	---	---
19	---	---	---	719	707	719	---	746	---	---	---	---
20	---	---	---	720	711	724	---	744	---	---	---	---
21	---	---	---	714	715	726	---	746	---	---	---	---
22	---	---	---	716	707	721	---	747	---	---	---	---
23	---	---	724	710	703	722	---	747	---	---	---	---
24	---	---	730	711	708	721	748	748	---	---	---	---
25	---	---	728	703	704	721	749	748	---	---	---	---
26	---	---	725	702	705	722	750	749	---	---	---	---
27	---	---	722	708	706	725	748	750	---	---	---	---
28	---	---	721	700	692	724	747	751	---	---	---	---
29	---	---	721	693	694	723	745	752	---	---	---	---
30	---	---	726	698	---	728	748	753	---	---	---	---
31	---	---	717	699	---	731	---	753	---	---	---	---
MEAN	---	---	---	714	---	718	---	746	---	---	---	---
MAX	---	---	--	728	--	731	--	753	--	---	---	---
MIN	---	---	--	693	--	706	--	739	--	---	---	---

354356078403503 WK-279 DENR Lake Wheeler Research Station MW-1D (Bedrock Well)—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	6.2	6.0	5.9	5.8	5.8	5.8	---	---	---
2	---	---	---	6.2	6.0	5.9	5.8	5.8	5.8	---	---	---
3	---	---	---	6.2	6.0	5.9	5.8	5.8	5.8	---	---	---
4	---	---	---	6.2	5.9	5.9	5.8	5.8	5.8	---	---	---
5	---	---	---	6.2	5.9	5.9	5.8	5.8	5.8	---	---	---
6	---	---	---	6.2	5.9	5.9	5.8	5.8	5.8	---	---	---
7	---	---	---	6.2	5.9	5.9	5.8	5.8	5.8	---	---	---
8	---	---	---	6.1	5.9	5.9	5.8	5.8	5.8	---	---	---
9	---	---	---	6.1	5.9	5.9	5.8	5.8	5.8	---	---	---
10	---	---	---	6.2	---	5.9	5.9	5.8	5.8	---	---	---
11	---	---	---	6.2	---	5.9	5.9	5.8	5.8	---	---	---
12	---	---	---	6.2	---	5.8	5.9	5.8	5.8	---	---	---
13	---	---	---	6.2	---	5.8	5.9	5.8	5.8	---	---	---
14	---	---	---	6.2	5.9	5.8	5.9	5.8	5.8	---	---	---
15	---	---	---	6.1	5.9	5.8	5.9	5.8	5.8	---	---	---
16	---	---	---	6.1	5.9	5.8	---	5.8	5.7	---	---	---
17	---	---	---	6.1	5.9	5.8	---	5.8	---	---	---	---
18	---	---	---	6.1	5.9	5.8	---	5.8	---	---	---	---
19	---	---	---	6.1	5.9	5.8	---	5.8	---	---	---	---
20	---	---	---	6.1	5.9	5.8	---	5.8	---	---	---	---
21	---	---	---	6.0	5.9	5.9	---	5.8	---	---	---	---
22	---	---	---	6.0	5.9	5.9	---	5.8	---	---	---	---
23	---	---	6.3	6.0	5.8	5.9	---	5.8	---	---	---	---
24	---	---	6.3	6.0	5.8	5.9	5.9	5.8	---	---	---	---
25	---	---	6.3	6.0	5.8	5.9	5.8	5.8	---	---	---	---
26	---	---	6.2	6.0	5.8	5.9	5.8	5.8	---	---	---	---
27	---	---	6.3	6.1	5.8	5.9	5.8	5.8	---	---	---	---
28	---	---	6.3	6.0	5.8	5.9	5.8	5.8	---	---	---	---
29	---	---	6.3	6.0	5.8	5.9	5.8	5.8	---	---	---	---
30	---	---	6.3	6.0	---	5.9	5.8	5.7	---	---	---	---
31	---	---	6.3	6.0	---	5.8	---	5.8	---	---	---	---
MEAN	---	---	---	6.1	---	5.9	---	5.8	---	---	---	---
MAX	---	---	---	6.2	---	5.9	---	5.8	---	---	---	---
MIN	---	---	---	6.0	---	5.8	---	5.7	---	---	---	---

354356078403503 WK-279 DENR Lake Wheeler Research Station MW-1D (Bedrock Well)—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---
2	---	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---
3	---	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---
4	---	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---
5	---	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---
6	---	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---
7	---	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---
8	---	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---
9	---	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---
10	---	---	---	16.1	---	16.1	16.1	16.1	16.1	---	---	---
11	---	---	---	16.1	---	16.1	16.1	16.1	16.1	---	---	---
12	---	---	---	16.1	---	16.1	16.1	16.1	16.1	---	---	---
13	---	---	---	16.1	---	16.1	16.1	16.1	16.1	---	---	---
14	---	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---
15	---	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---
16	---	---	---	16.1	16.1	16.1	---	16.1	16.1	---	---	---
17	---	---	---	16.1	16.1	16.1	---	16.1	---	---	---	---
18	---	---	---	16.1	16.1	16.1	---	16.1	---	---	---	---
19	---	---	---	16.1	16.1	16.1	---	16.1	---	---	---	---
20	---	---	---	16.1	16.1	16.1	---	16.1	---	---	---	---
21	---	---	---	16.1	16.1	16.1	---	16.1	---	---	---	---
22	---	---	---	16.1	16.1	16.1	---	16.1	---	---	---	---
23	---	---	16.1	16.1	16.1	16.1	---	16.1	---	---	---	---
24	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---
25	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---
26	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---
27	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---
28	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---
29	---	---	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---
30	---	---	16.1	16.1	---	16.1	16.1	16.1	---	---	---	---
31	---	---	16.1	16.1	---	16.1	---	16.1	---	---	---	---
MEAN	---	---	---	16.1	---	16.1	---	16.1	---	---	---	---
MAX	---	---	---	16.1	---	16.1	---	16.1	---	---	---	---
MIN	---	---	---	16.1	---	16.1	---	16.1	---	---	---	---

354356078403503 WK-279 DENR Lake Wheeler Research Station MW-1D (Bedrock Well)—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	0.4	0.6	0.5	0.3	0.4	0.3	---	---	---
2	---	---	---	0.4	0.5	0.5	0.3	0.4	0.4	---	---	---
3	---	---	---	0.4	0.6	0.5	0.4	0.3	0.4	---	---	---
4	---	---	---	0.4	0.6	0.4	0.4	0.4	0.4	---	---	---
5	---	---	---	0.3	0.6	0.4	0.4	0.4	0.4	---	---	---
6	---	---	---	0.4	0.5	0.4	0.4	0.4	0.4	---	---	---
7	---	---	---	0.4	0.7	0.4	0.3	0.3	0.4	---	---	---
8	---	---	---	0.4	0.6	0.4	0.3	0.4	0.4	---	---	---
9	---	---	---	0.4	0.6	0.4	0.3	0.4	0.4	---	---	---
10	---	---	---	0.4	---	0.4	0.3	0.4	0.4	---	---	---
11	---	---	---	0.5	---	0.4	0.3	0.4	0.4	---	---	---
12	---	---	---	0.4	---	0.4	0.3	0.4	0.4	---	---	---
13	---	---	---	0.3	---	0.4	0.3	0.4	0.4	---	---	---
14	---	---	---	0.3	0.6	0.4	0.3	0.4	0.4	---	---	---
15	---	---	---	0.3	0.5	0.4	0.3	0.5	0.4	---	---	---
16	---	---	---	0.3	0.7	0.4	---	0.4	0.4	---	---	---
17	---	---	---	0.4	0.6	0.4	---	0.4	---	---	---	---
18	---	---	---	0.3	0.5	0.4	---	0.4	---	---	---	---
19	---	---	---	0.3	0.4	0.4	---	0.4	---	---	---	---
20	---	---	---	0.3	0.4	0.4	---	0.4	---	---	---	---
21	---	---	---	0.4	0.4	0.3	---	0.4	---	---	---	---
22	---	---	---	0.3	0.5	0.3	---	0.4	---	---	---	---
23	---	---	0.5	0.4	0.5	0.3	---	0.4	---	---	---	---
24	---	---	0.4	0.4	0.4	0.3	0.3	0.4	---	---	---	---
25	---	---	0.4	0.5	0.5	0.4	0.3	0.4	---	---	---	---
26	---	---	0.4	0.5	0.5	0.3	0.4	0.3	---	---	---	---
27	---	---	0.4	0.4	0.5	0.3	0.4	0.3	---	---	---	---
28	---	---	0.4	0.5	0.6	0.4	0.4	0.3	---	---	---	---
29	---	---	0.4	0.6	0.6	0.4	0.4	0.3	---	---	---	---
30	---	---	0.4	0.6	---	0.3	0.4	0.3	---	---	---	---
31	---	---	0.4	0.5	---	0.3	---	0.3	---	---	---	---
MEAN	---	---	---	0.4	---	0.4	---	0.4	---	---	---	---
MAX	---	---	---	0.6	---	0.5	---	0.5	---	---	---	---
MIN	---	---	---	0.3	---	0.3	---	0.3	---	---	---	---

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DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	4	6	5	3	4	3	---	---	---
2	---	---	---	4	5	5	3	4	4	---	---	---
3	---	---	---	4	6	5	4	3	4	---	---	---
4	---	---	---	4	6	4	4	4	4	---	---	---
5	---	---	---	3	6	4	4	4	4	---	---	---
6	---	---	---	4	5	4	4	4	4	---	---	---
7	---	---	---	4	7	4	3	4	4	---	---	---
8	---	---	---	4	6	4	3	4	4	---	---	---
9	---	---	---	4	6	4	3	4	4	---	---	---
10	---	---	---	4	---	4	3	4	4	---	---	---
11	---	---	---	5	---	4	3	4	4	---	---	---
12	---	---	---	4	---	4	3	4	4	---	---	---
13	---	---	---	3	---	4	3	4	4	---	---	---
14	---	---	---	3	6	4	3	4	4	---	---	---
15	---	---	---	3	5	4	3	5	4	---	---	---
16	---	---	---	3	7	4	---	4	4	---	---	---
17	---	---	---	4	6	4	---	4	---	---	---	---
18	---	---	---	3	5	4	---	4	---	---	---	---
19	---	---	---	3	4	4	---	4	---	---	---	---
20	---	---	---	3	4	4	---	4	---	---	---	---
21	---	---	---	4	4	3	---	4	---	---	---	---
22	---	---	---	3	5	3	---	4	---	---	---	---
23	---	---	5	4	5	3	---	4	---	---	---	---
24	---	---	4	4	4	3	3	4	---	---	---	---
25	---	---	4	5	5	4	3	4	---	---	---	---
26	---	---	4	5	5	3	4	3	---	---	---	---
27	---	---	4	4	5	3	4	3	---	---	---	---
28	---	---	4	5	6	4	4	3	---	---	---	---
29	---	---	4	6	6	4	4	3	---	---	---	---
30	---	---	4	6	---	3	4	3	---	---	---	---
31	---	---	4	5	---	3	---	3	---	---	---	---
MEAN	---	---	---	4	---	4	---	4	---	---	---	---
MAX	---	---	--	6	--	5	--	5	--	---	---	---
MIN	---	---	--	3	--	3	--	3	--	---	---	---